

19970703.ba ba-por01.535 ba-por01.536
 >1535
 >From owner-boatanchors@sco.theporch.com Wed Jul 2 00:03 CDT 1997
 >Received: from sco.theporch.com (sco.theporch.com [207.234.31.38])
 > by uro.theporch.com (8.8.6/A-UX-3.1.1) with ESMTP id AAA20046
 > for <SHIMSHON@URO.THEPORCH.COM>; Wed, 2 Jul 1997 00:03:04 -0500 (CDT)
 >Received: from sco.theporch.com (localhost [127.0.0.1])
 > by sco.theporch.com (8.8.6/SCO-5.0.2) with SMTP id FAA24577;
 > Wed, 2 Jul 1997 05:02:21 GMT
 >Message-Id: <199707020502.FAA24577@sco.theporch.com>
 >Date: Wed, 2 Jul 1997 00:02:21 CDT
 >Sender: owner-boatanchors@theporch.com
 >From: boatanchors@theporch.com
 >To: Old Tube Radios <boatanchors@sco.theporch.com>
 >Subject: BOATANCHORS digest 1535
 >Mime-Version: 1.0
 >Content-Type: multipart/mixed; boundary="--
 __ListProc__NextPart__867819551433909775"
 >X-Listprocessor-Version: 8.1 -- ListProcessor(tm) by CRENN
 >Status: 0

BOATANCHORS Digest 1535

Topics covered in this issue include:

- 1) Re: DX40 plate current
by Mike Sanders <k0az@i1.net>
- 2) National Power Supply/Speaker
by "Samuel C. Macy" <sammac@interaccess.com>
- 3) Frontier capacitors-info
by john <johnmb@mindspring.com>
- 4) Re: Memories.../TG-5
by nielw@ix.netcom.com (Niel Wiegand)
- 5) Re: Parts you might want
by w7ni@teleport.com (Stan Griffiths)
- 6) Alternate 1L6 substitutions
by "Larry Johnson" <k5yf@wt.net>
- 7) WTB: Eico 722 and 730
by Jake Hellbach <kk5hy@accesscom.net>
- 8) Need Schematic for S-40B
by Keith Heitzmann <kk5fe@communique.net>
- 9) "NAVY" AN/ARC-5
by "ROBERT W DOWNS, WA5CAB" <RWDowns_WA5CAB@compuserve.com>
- 10) re: BA Barn?
by Glenn Finerman <glennfin@worldnet.att.net>

Date: Tue, 01 Jul 1997 18:44:03 -0500
From: Mike Sanders <k0az@i1.net>
To: bloper@ix.netcom.com, Old Tube Radios <boatanchors@sco.theporch.com>
Subject: Re: DX40 plate current
Message-ID: <3.0.16.19970701183741.1a6fd2b6@i1.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I would look for an intermittant connection in the output. Tank coil to loading or tuning cap. Bad solder joint that has gone a bit mechanical could do it but it is on the output side for sure. If you have steady grid current. I assume the output is good then nothing? Good luck.
73, Mike K0AZ

At 09:14 PM 6/30/97 -0500, BEN ROSWELL LOPER wrote:
>I have a DX40 that I used for as a novice. I haven't had it on the air
>in abt 15 years. Last time I tried to tune it everything tuned up
>fine, but when I switch to CW position(meter in plate) and key it the
>plate meter pegs out. I can re-dip it and it tunes just like its
>supposed to, but once I switch back to CW position it happens again.
>Sometimes it will key a few times and then "bam" the meter will peg.
>Also if I leave the meter in the grid position it won't show any loss
>of grid current. I haven't done anything to it and it worked great a
>few years ago, so I know everything is wired up right, any suggestions
>I'd love to get back on the air with it TNX Ben KJ4CC
>
>

K0AZ formerly KS0F, N0ARH, K4KJG, K0TPW.

Mike Sanders 3409 Henry Dr. Imperial, MO 63052 314-282-0787
6 Meters VUCC #605 497 grids confirmed 47 countries 49 states 4 continents
E skip only
2 Meters VUCC #447 188 grids confirmed 3 countries 44 states 1 continents
Terrestrial only
Satellite VUCC #39 (mode A only)
Above stats since Feb 95
6 Meter power 170 watts. Max antenna height 57 feet. Max boom length 20 feet.
2 Meter power 170 watts. Max antenna height 62 feet. Max boom length 15 feet.

Date: Tue, 01 Jul 1997 20:38:36 -0500
From: "Samuel C. Macy" <sammac@interaccess.com>
To: boatanchors@sco.theporch.com

Subject: National Power Supply/Speaker
Message-ID: <3.0.32.19970701203829.00693e2c@pop.interaccess.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

WTB: National P/S for NCX-3 or NCX-5. Sam W2DNN
Sam Macy W2DNN
486 Glenwood Trail
Elgin, IL 60120

Date: Tue, 01 Jul 1997 21:41:50 -0400
From: john <johnmb@mindspring.com>
To: boatanchors@theporch.com
Subject: Frontier capacitors-info
Message-ID: <199707020145.VAA11440@brickbat9.mindspring.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

In reponse to some e-mail regarding my earlier
post, and because I've had several VERY positive dealings
with the nice folks there, here are some details from Frontiers'
price sheet:

- They still offer can-type rebuilding of twist locks, antique wet type, clamp mounts, Philco blocks and tubulars. They prefer rebuilding YOUR unit. They cannot rebuild plastic based octal types.

- they offer custom made caps (ex: .15 and .25uF at 1600VDC...weren't these the ones that die in the monitorscopes?)

- They offer 600 and 700 VDC made of series-ed up parts w/center tap for equalizing resistor.

- They stock all the popular 600v/450v bypass/decoupling mylars as well as 1KV disks and HV eletrolytics...

They may be reached at

Frontier Capacitor
PO Box 218
403 South McIntosh St.
Lehr ND 58460

phone 701-378-2341
Fax 701-378-2551

Mr Everett Hoard is a gentleman, and I recommend Frontier most highly.

Hope this helps
/John
(a very satisfied customer)

```
+-----+
|Wanted: Rack cabinet for Globe King 500C      |
|                Howard Co. receiver/acc'ys/docs |
|                AWA-OTB back issues...          |
|                WB50AU/4   AMI #24              |
|                johnmb@mindspring..com          |
+-----+
```

Date: Tue, 1 Jul 1997 20:51:22 -0500 (CDT)
From: nielw@ix.netcom.com (Niel Wiegand)
To: keng@uidaho.edu
Cc: boatanchors@theporch.com
Subject: Re: Memories.../TG-5
Message-ID: <199707020151.UAA28985@dfw-ix14.ix.netcom.com>

Sounds to me like a TG-5 military telegraph set. The top flips up and the side drops down with a J-41 attached. Included a buzzer rather than "click-clack" sounder. It was used for WWII field communication via wire.

73, Niel - WA5VLZ/0, Rochester, MN

You wrote:

>
>I remember seeing a small
>box, about the same size and shape as a 3 X 5 card file box in which
>one of the long sides folded down and there was what I remember as a
>J-38 key mounted to it. I remember it as being some sort of small
>transmitter, but perhaps it was a code practice oscillator/buzzer or
>a portable land-line morse key/sounder combo.
>
>Anyone who is at least as old as I am remember seeing such a beast ?
>Whatwas it really ?
>

>Oh, BTW, that was 40 years ago.

>

>Ken W7EKB

>

>

Date: Tue, 1 Jul 1997 19:16:32 -0700 (PDT)
From: w7ni@teleport.com (Stan Griffiths)
To: flasch@cushy.ece.nwu.edu
Cc: boatanchors@theporch.com
Subject: Re: Parts you might want
Message-ID: <199707020216.TAA14054@kim.teleport.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>I do plan on keeping the 514 on a matching louvered grey scope mobile
>as well as a good 545B with matching mobile. It still amazes me that
>these 40+ year old scopes usually work. I'll bet those electrolytics
>will still be good 40 years from now. Did anyone ever have to replace
>one in a Tek scope?

Well, yes, I've probably replaced a dozen of them over the years, but you have to consider HOW MANY Tek scopes I serviced during that time. My estimate is 2000.

Norm, the 575 has value today as a troubleshooting tool and will have for many years to come. I would not part one out unless it has already been trashed pretty badly. I might be interested in buying it from you and even paying the shipping to get it here. Does it have mod 122C installed? You can tell by looking to see if there is an insert in the front panel that says "Mod 122C" on it or look and see if there is a 1500 volt range on the "Collector Volts" supply. I want a 575 with 122C in it. I use my restored 575 ALL the time . . .

Stan w7ni@teleport.com

Date: Wed, 2 Jul 1997 03:24:51 +0100
From: "Larry Johnson" <k5yf@wt.net>
To: "boatanchors" <boatanchors@sco.theporch.com>
Subject: Alternate 1L6 substitutions
Message-ID: <199707020218.VAA28936@pan.wt.net>
MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

General consensus by the experts (thanks for the replies, guys) is that the 1R5 is not that great a replacement for the 1L6...especially at higher frequencies. Are there any other tubes which may be better substitutes for the 1L6? Do I dare even ask if 1L6's are available? Thanks again for your all's help.

Larry Johnson
Internet: k5yf@wt.net
Houston, TX

Date: Tue, 1 Jul 97 22:32 CDT
From: Jake Hellbach <kk5hy@accesscom.net>
To: baswaplist@foothill.net, boatanchors@sco.theporch.com
Subject: WTB: Eico 722 and 730
Message-ID: <2.2.16.19970701223356.25275de4@accesscom.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello,
I am looking for the following, need not be collector quality just repairable:
Eico 722 VF0
Eico 730 Modulator

Thanks, Jake KK5HY

+++++
-----Dedicated to the care and feeding of Vintage Radio-----
Email via: kk5hy@accesscom.net
A.M. International #832
Check out the Westside ARC Web page at:
<http://www.accesscom.net/~kk5hy>
Now updated with boatanchor links!!!!
+++++

Date: Tue, 1 Jul 1997 22:49:08 -0500 (CDT)
From: Keith Heitzmann <kk5fe@communique.net>
To: boatanchors@sco.theporch.com
Subject: Need Schematic for S-40B

Message-ID: <2.2.16.19970701224755.3397813e@mail.communique.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

HI All,
I have a Hallicrafters S-40B that I am trying to get on the air and found a couple of sniped wires. I don't know what they go to or were for. So if anyone has a copy of the schematic for this radio, I would surely pay for postage/copys of it.

Thanks,
Keith KK5FE

-----Keeper of all that I buy-----
-----AMI# 837-----
-----Visit my Vintage Radio Web Site-----
-----http://www.communique.net/~kk5fe-----
Collector of tube radio's and vintage fishing equipment

Date: Wed, 2 Jul 1997 00:20:42 -0400
From: "ROBERT W DOWNS, WA5CAB" <RWDowns_WA5CAB@compuserve.com>
To: BOATANCHORS <boatanchors@theporch.com>
Subject: "NAVY" AN/ARC-5
Message-ID: <199707020020_MC2-199A-E6B@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain; charset=ISO-8859-1
Content-Disposition: inline

Group,

Well, my BC Band Command Set coil set inquiry didn't elicit any inquiries=
,
so I guess that either the need is filled, or I "disremembered" the sourc=
e.

However, my comment about the Navy version of the AN/ARC-5 did generate =
a
few responses, so here's the story. The Navy, having been consistently
ahead of the Army in matters technological since at least the Napoleonic
Wars, was the original purchaser of the Command Sets from Aircraft Radio
Corp. Nomenclature was RAT, RAT-1, RAV (all receivers only) and ATA/ARA.=
=

The Signal Corps, being somewhat behind the power curve in aircraft sets, and being constantly pounded by the AAC (later AAF) in their misguided attempts to disrupt the war effort and split off from the Army, bought the ATA/ARA set from A.R.C. and assigned it the nomenclature SCR-274N ("N" for Navy). The Navy later started A.R.C. on the design of an improved version, which included the plate modulator and shunt fed finals in the transmitters. Nomenclature was assigned (most of which I have in my database) but I've never heard of anyone seeing any of the hardware. This set became AN/ARC-5 when JAN nomenclature was imposed on the individual services in late '42/early '43.

In all fairness, I should probably comment that despite the Signal Corps' shortcomings in aircraft sets (compare the BC-375 to the ATD [AN/ART-13]), they were so far ahead of the rest of the world in ground tactical (i.e., FM) sets that the Navy didn't catch up until the Korean War. The Germans, Japanese, and Russians never did catch up.

73, Robert W. Downs, WA5CAB
CW04 USNR
RWDowns_WA5CAB@compuserve.com
Houston, TX

Date: Wed, 02 Jul 1997 00:21:53 -0700
From: Glenn Finerman <glennfin@worldnet.att.net>
To: boatanchors@theporch.com
Subject: re: BA Barn?
Message-ID: <33BA0191.B84@worldnet.att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Well I'm sorry to report the "BA Barn" was a big flop! A very big disappointment for me. My Xyl kept telling me on the trip there, Don't get your hopes up and you won't be let down. Well good advice in theory, but you just can't help yourself! The guy who I spoke to on the phone wasn't even there. His wife met us out back at the barn,

let us inside. The barn was packed about (8ft high) with junk. The wife pointed to a small pile of junk in the corner (not "good" junk, REAL JUNK!!) some old intercoms, some 1970's, 1980's QST's, a few very rotten/moldy broadcast sets. She said.. "\$100 for everything". (I don't think so Tim!!!) First thing out of my mouth was "WHERE'S ALL THE RADIOS!!!!?) I'll cut to the chase... That's all there was!! Did find an Eico Modulator wedged between two boxes of QST's, but that's it!! Grabbed the modulator, 3 years of QST's from early 60's and headed home. Met up with the guy the next day at that same flea market, he said he was sorry, but he thought there was more ham gear. I asked him if there could be more buried in the middle of that huge pile I saw the previous day. His comment was " It's possible" So this story may have a happy ending someday after all, but like I told you, I'm not getting my hopes up for this one! <grin>

--

73.....Glenn N2BJG glennfin@worldnet.att.net

Owner/operator of the N2BJG 10 meter beacon = 28.219 Mhz.
(24hrs a day, 7 days a week) Please QSL!!!

End of BOATANCHORS Digest 1535

>1536

>From owner-boatanchors@sco.theporch.com Wed Jul 2 13:48 CDT 1997
>Received: from sco.theporch.com (sco.theporch.com [207.234.31.38])
> by uro.theporch.com (8.8.6/A-UX-3.1.1) with ESMTP id NAA20873
> for <SHIMSHON@URO.THEPORCH.COM>; Wed, 2 Jul 1997 13:48:02 -0500 (CDT)
>Received: from sco.theporch.com (localhost [127.0.0.1])
> by sco.theporch.com (8.8.6/SCO-5.0.2) with SMTP id SAA09923;
> Wed, 2 Jul 1997 18:43:54 GMT
>Message-Id: <199707021843.SAA09923@sco.theporch.com>
>Date: Wed, 2 Jul 1997 13:43:53 CDT
>Sender: owner-boatanchors@theporch.com
>From: boatanchors@theporch.com
>To: Old Tube Radios <boatanchors@sco.theporch.com>
>Subject: BOATANCHORS digest 1536
>Mime-Version: 1.0
>Content-Type: multipart/mixed; boundary="--
__ListProc__NextPart__867868997433934498"
>X-Listprocessor-Version: 8.1 -- ListProcessor(tm) by CRENN
>Status: 0

BOATANCHORS Digest 1536

Topics covered in this issue include:

- 1) Re: polishing knobs
by John Kolb <jlkolb@cts.com>
- 2) Re: polishing knobs
by Morris Odell <morriso@vifp.monash.edu.au>
- 3) Audio xfmr needed
by Ed Tanton <n4xy@bellsouth.net>
- 4) Panoramoscope SA-L Type TA-200???
- by "Ray L. Mote" <rmote@rain.org>
- 5) Re: 6L6 UP(side dn) & RUNNING
by "al parker" <al_parker@kacc.com>
- 6) FS: HT-41, \$295
by "al parker" <al_parker@kacc.com>
- 7) Re: T-195 LV Dynamotor
by "al parker" <al_parker@kacc.com>
- 8) Halli S-40B schematic
by Scott Robinson <spr@earthlink.net>
- 9) R-390A progress (long)
by Scott Robinson <spr@earthlink.net>
- 10) R-390A Bristo tool
by Scott Robinson <spr@earthlink.net>
- 11) How does water cooling 6L6s work!?
- by Scott Robinson <spr@earthlink.net>
- 12) BC-221
by Scott Robinson <spr@earthlink.net>
- 13) Heath V6 VTVM
by michael.hopkins.1171@corvus.com (Michael Hopkins)
- 14) Re: Alternate 1L6 substitutions
by Ken Gordon <keng@uidaho.edu>
- 15) Re: Alternate 1L6 substitutions
by Ken Gordon <keng@uidaho.edu>
- 16) RCA AVR-101-A rcvr
by frank_adams@onf.com (Frank Adams)
- 17) Re: Polishing knobs
by frank_adams@onf.com (Frank Adams)
- 18) Re: polishing knobs
by "Roberta J. Barmore" <rbarmore@indy.net>
- 19) WTB: SX-115 Halli
by "John Goller" <k9uwa@cris.com>
- 20) WTB: DX Engr'g Speech Proc.
by "John Goller" <k9uwa@cris.com>
- 21) Stuff for Free - Stuff for Sale
by "Bob Marsh" <bmarsh@bellatlantic.net>
- 22) Re: 10 Meters
by Mike Toneri <toneri@ils.net>
- 23) schematic needed
by Bob Roehrig <broehrig@admin.aurora.edu>
- 24) FS: Gates Broadcast Transmitter
by "Steven K. Wenger" <swenger@csj.net>

- 25) Re: polishing knobs
by "A. B. Bonds" <ab@vuse.vanderbilt.edu>
- 26) Ten Tec
by VernSchroe@aol.com
- 27) [Fwd: Re: polishing knobs]
by Mac Shawe <macshawe@erols.com>
- 28) Re: Cooling Tubes
by dfrancis@iex.net (Dexter Francis)

Date: Tue, 1 Jul 1997 22:01:01 -0700 (PDT)
From: John Kolb <jlkolb@cts.com>
To: Mac Shawe <macshawe@erols.com>
Cc: Old Tube Radios <boatanchors@sco.theporch.com>
Subject: Re: polishing knobs
Message-ID: <Pine.SCO.3.91.970701215754.14656A-100000@sd.cts.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 1 Jul 1997, Mac Shawe wrote:

> Brasso may be OK on plastic knobs but do not use it on any knobs having
> brass on them. Clock repair has been another hobby of mine. We were
> always warned never to use it on clock cases because it etches &
> corrodes brass, Mac

Can this be true - that Brasso, sold mainly for cleaning brass
is dangerous to it? My daughter's trumpet, (as well as some of
my radios, Jack) badly wants to know if anyone has more info on
this.

John KK6IL jlkolb@cts.com

Date: Wed, 02 Jul 1997 17:23:15 +1200
From: Morris Odell <morriso@vifp.monash.edu.au>
To: boatanchors@sco.theporch.com
Subject: Re: polishing knobs
Message-ID: <33B9E5C3.48CB@vifp.monash.edu.au>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

John Kolb wrote:

> > Brasso may be OK on plastic knobs but do not use it on any knobs having
> > brass on them. Clock repair has been another hobby of mine. We were
> > always warned never to use it on clock cases because it etches &
> > corrodes brass, Mac
>
> Can this be true - that Brasso, sold mainly for cleaning brass
> is dangerous to it? My daughter's trumpet, (as well as some of
> my radios, Jack) badly wants to know if anyone has more info on
> this.

I used it on a magnetic loop antenna made of copper pipe and it did a lovely job. The antenna looks like a piece of sculpture!

73

Morris

Morris Odell Victorian Institute of Forensic Medicine
Forensic Physician 57-83 Kavanagh St, Southbank 3006
mailto:morriso@vifp.monash.edu.au Victoria, Australia
http://www.vifp.monash.edu.au/CFM/staff/mo.html

Date: Wed, 02 Jul 1997 01:46:59 -0400
From: Ed Tanton <n4xy@bellsouth.net>
To: boatanchors@theporch.com
Cc: homebrew@qsl.net, QRP-L Reflector <qrp-l@Lehigh.EDU>
Subject: Audio xfmr needed
Message-ID: <3.0.1.32.19970702014659.00a45e10@mail.atl.bellsouth.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi folks... I need a 5000 ohm CT to 600 ohm (preferably-but not necessarily-with taps to 4 ohms) at 10W min power rating for my GPR90 SSB adapter audio output. Preferably-but not necessarily-potted/hermetically sealed.) Reasonable price and shipping gladly paid. Any help will be very appreciated. Thanks!

72/73

Ed Tanton N4XY EMAIL: n4xy@bellsouth.net
189 Pioneer Trail
Marietta, GA 30068-3466 TEL: (770)579-3933 V/MBX/FAX

QRP-ARCI #7663 G-QRP #6779 OK-QRP #172 QRP-L #758
AdvRC #140 NORCAL #1779 NCDXF SEDXC

Life Member: ARRL AMSAT INDEXA QCWA

INTERESTS: DX QRP BoatAnchors Test Equipment Photography
CW: 99.9% QRP: 95-100% (Mood swings!) Mercury Paddle #0214

"Think you can, think you can't: either way you're right!" Henry Ford

Date: Tue, 1 Jul 1997 23:08:36 -0700 (PDT)
From: "Ray L. Mote" <rmote@rain.org>
To: Boatanchors <boatanchors@sco.theporch.com>
Cc: dxer@fl.net.au
Subject: Panoramoscope SA-L Type TA-200???
Message-ID: <Pine.SUN.3.96.970701230417.7526B-100000@coyote.rain.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

VK2GCE is looking for docs on the above, S/N 890, by Panoramic Radio Corp., NY. Sounds like it may have been WW2 commercial gear?

Brian can be contacted through John Wright <dxer@fl.net.au>. Didn't get John's call, but the 3TF7 I sent with Brian ended up in his hands when his '390A blew one. Looks like he needs to "join up" here in BA-land!

73....Ray Mote, K5FKT <rmote@rain.org> Oxnard, CA

Date: Tue, 01 Jul 97 22:03:35
From: "al parker" <al_parker@kacc.com>
To: broehrig@admin.aurora.edu, boatanchors@sco.theporch.com
Subject: Re: 6L6 UP(side dn) & RUNNING
Message-ID: <9706018678.AA867819816@ccuucp.kacc.com>

Bob,

Time ran out on me at work today, I got out one of the old books, but didn't get time to look for a few bits of info on radiation, etc. I'll try again tomorrow, maybe I can put some numbers to what I tried to say, and what Bobbi did a better job of saying. Also thought I'd check in "Care and Feeding of Power

Tubes", Eimac's info, I'll find that now.

Bobbi has much more practical experience than I, but I've been into heat transfer stuff a bit in my line of work, non-related to electronics.

73,
Al, W8UT al_parker@kacc.com
Dublin, CA

A fanatic is one who doubles his efforts after forgetting his objective.

Date: Tue, 01 Jul 97 22:03:36
From: "al parker" <al_parker@kacc.com>
To: baswaplist@foothill.net, boatanchors@sco.theporch.com
Subject: FS: HT-41, \$295
Message-ID: <9706018678.AA867819817@ccuucp.kacc.com>

I've got a nice HT-41 available. It uses a pr of 7094's, and altho' the schem. calls for 866A's in P.S., it has 3B28's, a direct replacement, non-MV rect. I'd say it's about an 8 of 10, some paint chips on panel, a couple of scratches on case but no dents. Pretty clean inside and out, has an antenna in/out relay installed, otherwise unmodified. Loads up fully on all bands, tho' plates show color at full power, more so on higher bands. w/copy of manual.

I'd like \$295 for it. I'd prefer not to ship, I'll be at Livermore Swapfest this Sun., and maybe Foothills next week, or meet you in the Bay area. Otherwise, shipping extra, stout box/crate would be a necessity, it weighs about 85 lbs, plus packing mat'l. I might/could build a crate. I have an original Hallicrafters box, thought it was for this amp, but it says HT-37 on it, this one's mate.

Tnx & 73,
Al, W8UT al_parker@kacc.com
Dublin, CA

A fanatic is one who doubles his efforts after forgetting his objective.

Date: Tue, 01 Jul 97 22:03:35

From: "al parker" <al_parker@kacc.com>
To: boatanchors@sco.theporch.com, lambmd-ce@salem.ge.com
Subject: Re: T-195 LV Dynamotor
Message-ID: <9706018678.AA867819815@ccuucp.kacc.com>

Tue, 1 Jul 1997 Charles WD4KZK wrote:

>

> the usual loud whine became intolerable and subsequent teardown and
>extraction has revealed D601, the Low voltage dynamotor to have a
>failing front bearing. Now, my options are: <snip>
>To locate a new bearing and have it pressed into the existing motor
>generator <snip>
> Can someone help with either a spare DM or advice on front bearing
>repair? snip I prefer to restore it. Any
>help appreciated - I'm off the air!

Ken W7EKB responded:

>I would go to a local equivalent of Electrical Specialists, a company
>which specializes in rebuilding auto alternators and electrical
>systems, and have them press a new bearing.

I get the digest, and was thinking as Ken suggested, then found his note further down.

Many people don't realize it, but ball bearings are universal 'round the world. They're all metric, in even millimeter sizes, and any "Bearings Service" or similar supply house can sell you a replacement for almost anything right off the shelf. Take the old one in, or just I.D, O.D, & width measurements.

If the dynamotor has a plain sleeve bearing (probably), they are in inch sizes, as well as mm, I suppose, and I have taken stuff to an auto electric service shop for quick, while you wait replacement, including reaming to fit as reqd. (Depends on your rapport and their workload.)

Bottom line, if a bearing in an old or foreign piece of gear fails, it's not necessarily a candidate for the scrap box. Bearings are very reasonably priced, and easily available in 'most large towns, small cities, particularly where there is any amount of industry.

A little heat and gently applied pressure will usually move the old out & new in. If installing a new rolling element bearing in a housing such as the dynamotor end bell, be sure not to press on the inner race, just on the outer, or the force will be transmitted thru the balls/rollers from inner to outer, brinelling the races and making the new one noisier and shorter lived than the old.

73,

Al, W8UT al_parker@kacc.com

Dublin, CA

A fanatic is one who doubles his efforts after forgetting his objective.

Date: Tue, 1 Jul 1997 22:16:05 +0100
From: Scott Robinson <spr@earthlink.net>
To: boatanchors@theporch.com
Subject: Halli S-40B schematic
Message-ID: <v03007800afdf23b7c532@[153.34.139.220]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Folks,

This schematic is found in Howard W. Sams Photofacts, set 122, folder 4. Try local library or older radio/TV shop, or Antique (and others as well) will sell you a copy for about 3 bucks.

Regards,

Scott Robinson
spr@earthlink.net

Junque is GOOD for you!

Date: Tue, 1 Jul 1997 22:59:27 +0100
From: Scott Robinson <spr@earthlink.net>
To: boatanchors@theporch.com
Subject: R-390A progress (long)
Message-ID: <v03007802afdf2e0530d3@[153.34.139.220]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Folks,

Herewith more news of the new toy:

The IF deck has had its alignment checked. I didn't take off any IF transformer covers and tweak in side as the 16 KHz bandwidth setting of the

switch looked OK with a sweep Gen. (actually a Leader rice-box function generator, quite nice for this kind of thing) and a 'scope. However, I did find that adjusting BOTH sets of mechanical filter trimmers for flattest response at some small cost (a few dB only) in gain was worth doing. In the 2 KHz band I picked up at least 10 dB of gain with these adjustments. One set of trimmers is under the cover for the mechanical filters, and the other-at least on this ~1960 model-is on the side of the deck. tuning for maximum smoke would give a fair approximation, but the sweeper method is better.

Has anyone tried installing an R-390 IF deck? Is it plug 'n play?

I've since had the RF deck out and back in. Found four or five resistors that were over 20% high and changed them, and the three paper caps in that deck. However, the more interesting discovery was that two resistor leads were wrapped around a ground lug and NEVER SOLDERED! So much for Stewart-Warner's Zero Defects program...I also found a nut that was supposed to be securing a ground lug that had fallen off over the years. Mind you, the RF deck worked before I took it apart and, as good fortune smiles, still does.

While I had the front panel off, I dismantled everything from it and gave it and the knobs a good bath in warm water and dishwashing soap. It was OK before, but now looks great! No nasty yellow stripe on this'n, thank heavens. I also replaced the RF gain pot, aged up to nearly 10K from 5K, and the damaged B+ fuse holder on the rear. I lubed (judiciously, I hope) the gear train and reassembled it all. As soon as Fair send me replacements for the dead crystals, I shall be forced to align it, no doubt a bit of a chore.

I will be modifying the audio deck eventually. I observe, however, that with a Hallicrafters R-42 speaker, which includes a matching transformer, the rx sounds OK to my ears, which are trained by my profession (professional audio equipment design) to notice distortion and other such things. I'm sure you GOTTA use a 600 ohm to speaker impedance transformer or no good audio will come out of your R-390A...unless you have a Philips 400 ohm loudspeaker around, and I don't, except in a ~1960 Philips radio I have.

I expect to mod the audio to use the one 5814 socket to house a 12AX7 and the two 6AK6 sockets to house 6AQ5s or EL95/6DL5s if I get paranoid about B+ current. I'd rather use the 6AQ5s since they are 'Merkan thangs, but the nice thing is that the pinout and load impedance requirement of both tube types is the same, so it's just a case of re-bias (fixed bias, derived from a doubler on the heater line) and plug in. I'm afraid the out put transformer will not look very military, but I have it already, and I'll keep the little 10K to 600 ohm transformers for sentiment.

Under normal conditions, the B+ rating of the power transformer will not be exceeded even with the 6AQ5s. Under worst case conditions (cal mode, BFO on) you'll take about 240 mA from a 200 mA winding, but as this rx has the diode mod in the power supply, 13 watts of 26 V heater power has been saved. Therefore 8 extra watts from the B+ will not overload the transformer as a whole, and I doubt any problem will ever arise.

I noticed that the current fed to the 0B2 and the three screens it feeds is increased by about 7 mA by the diode mod (higher B+), so I will probably add a bit of resistance to the resistor string feeding this to put that back to normal and minimize heat and transformer overload.

Of course, the real design challenge in ahead of me: to make a cover that lets hot air escape but keeps my abundant supply of cat fur out! I've spoken to the cat about it, but she just purrs and sheds another cubic foot or so of fur...

Regards,

Scott Robinson
spr@earthlink.net

Junque is GOOD for you!

Date: Tue, 1 Jul 1997 23:05:00 +0100
From: Scott Robinson <spr@earthlink.net>
To: boatanchors@theporch.com
Subject: R-390A Bristo tool
Message-ID: <v03007803afdf2e433f6c@[153.34.139.220]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Folks,

I have a set of right angle Bristo wrenches, similar to bent hex stock Allen keys. I can turn the R-390A set screws with this tool, but it's a pain. I have discovered where to get a proper Xcelite brand Bristo key built like a 4 inch blade screwdriver, far more convenient. The trick is, this place has a \$30 minimum (plus \$10 UPS) and the tools are about \$ 8 each. Two are spoken for, but if more are wanted, I'll fill out my order and pass them on for cost-about \$14 each with UPS to you, I suppose.

Any takers?

Scott Robinson
spr@earthlink.net

Junque is GOOD for you!

Date: Tue, 1 Jul 1997 23:38:15 +0100
From: Scott Robinson <spr@earthlink.net>
To: boatanchors@theporch.com
Subject: How does water cooling 6L6s work!?
Message-ID: <v03007807afdf34f9d315@[153.34.139.207]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Folks,

The way the plate gets rid of heat is mainly to radiate it in the infrared. Some of this IR passes through the glass envelope, but glass isn't so transparent in the far IR, so it absorbs some and gets hot.

The plate temperature is determined by electrical heating balanced by radiative cooling...but the hot glass and nearby air radiate some heat back as well, raising the plate's temperature. Therefore if the glass and whatever is outside it are kept cool, the plate temperature will be somewhat reduced.

The question is, reduced how much? The experiment to do is to feed a 6L6G or -GA or -GB on an upside-down chassis 400V or so B+ and an adjustable grid bias. Raise the plate current until you can just see red on the plate.

Shut down, allow the tube to cool. Now dunk it, keeping the water a half inch or so away from the edge of the plastic base; you don't want 40V through YOU, now did you?

You did use a transparent water tank, yes? Fire the tube up and see how much plate current it takes to just show plate color this time. Tell us about it. Devious, inquiring minds definitely want to know!

Of course, the arguments about keeping the glass from collapsing are entirely valid as well. But I'd like to know if the plate is cooler as

well...

Yours in the dual spirits of inquiry and of Tom Sawyer-get someone else to do the work,

Scott Robinson
spr@earthlink.net

Junque is GOOD for you!

Date: Tue, 1 Jul 1997 23:57:29 +0100
From: Scott Robinson <spr@earthlink.net>
To: boatanchors@theporch.com
Subject: BC-221
Message-ID: <v03007800afdf3ac1979b@[153.34.139.207]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Folks,

Well, one of these just jumped out of the woodwork at work today and adopted me. So, I need a manual or copy thereof. Also, I presume it works by being a precision oscillator that you beat against the unknown frequency and read the resulting zero-beat frequency off the dial, yes?

This one has had a nice (regulated) 120 VAC supply built-in. It all lights up but doesn't generate anything.

Ignorance reduction gratefully received.

Regards,

Scott Robinson
spr@earthlink.net

Junque is GOOD for you!

Date: Tue, 1 Jul 1997 18:26:00 GMT
From: michael.hopkins.1171@corvus.com (Michael Hopkins)
To: boatanchors@theporch.com
Subject: Heath V6 VTVM
Message-ID: <9707020200239734@corvus.com>

I do not want or need an old brown Heath VTVM for \$12.95 with probes and in apparently good shape, but I have seen it the last two days at a thrift store I frequent to buy cameras.

Should anyone wish it, or want more info, I go by there every day.

Michael.Hopkins@DRIG.com
Michae.Hopkins@corvus.com
MNHopkins@AOL.com

214-942-4070 Dallas, TX

* SLMR 2.1a *

Date: Wed, 2 Jul 1997 00:12:16 -0700 (PDT)
From: Ken Gordon <keng@uidaho.edu>
To: Larry Johnson <k5yf@wt.net>
Cc: Old Tube Radios <boatanchors@sco.theporch.com>
Subject: Re: Alternate 1L6 substitutions
Message-ID: <Pine.BSF.3.95.970702001057.27975A-100000@piobaire.mines.uidaho.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

> General consensus by the experts (thanks for the replies, guys) is that the
> 1R5 is not that great a replacement for the 1L6...especially at higher
> frequencies. Are there any other tubes which may be better substitutes for
> the 1L6? Do I dare even ask if 1L6's are available? Thanks again for your
> all's help.

I have been experimenting with substituting the 1AC6 with the 1L6. So far, although there are a few problems, it appears to work quite well.

Ken W7EKB

Date: Wed, 2 Jul 1997 00:13:24 -0700 (PDT)

From: Ken Gordon <keng@uidaho.edu>
To: Larry Johnson <k5yf@wt.net>
Cc: Old Tube Radios <boatanchors@sco.theporch.com>
Subject: Re: Alternate 1L6 substitutions
Message-ID: <Pine.BSF.3.95.970702001224.27975B-100000@piobaire.mines.uidaho.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 2 Jul 1997, Larry Johnson wrote:

> General consensus by the experts (thanks for the replies, guys) is that the
> 1R5 is not that great a replacement for the 1L6...especially at higher
> frequencies. Are there any other tubes which may be better substitutes for
> the 1L6? Do I dare even ask if 1L6's are available? Thanks again for your
> all's help.

BTW, 1L6s are listed in AES catalog at \$30.00 each.

Ken W7EKB

Date: 01 Jul 1997 13:46:23 GMT
From: frank_adams@onf.com (Frank Adams)
To: boatanchors@theporch.com
Subject: RCA AVR-101-A rcvr
Message-ID: <3780243357.30065453@onf.com>

Anyone hve any particulars on this teeny aircraft B/A - seems to be an LF RDF thing - wld like to have some specs & p/s cord pinouts (4-prong), to see what it does when lit off. TIA, Frank

Date: 01 Jul 1997 13:42:54 GMT
From: frank_adams@onf.com (Frank Adams)
To: boatanchors@theporch.com
Cc: boatanchors@sco.theporch.com
Subject: Re: Polishing knobs
Message-ID: <1001652190.30065347@onf.com>

Try Simchrome paste, also very good for this & other plastics. Also, re the loading bench comment, try tossing your smaller thingies to by shined into your case tumbler overnight - works wonders. - Frank

Date: Wed, 2 Jul 1997 07:01:37 -0500 (EST)
From: "Roberta J. Barmore" <rbarmore@indy.net>
To: John Kolb <jlkolb@cts.com>
Cc: Old Tube Radios <boatanchors@sco.theporch.com>
Subject: Re: polishing knobs
Message-ID: <Pine.SUN.3.96.970702064755.25048A-100000@indy2>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi!

Brasso is okay stuff, but there are better polishes, I think.

One of the best is "Flitz." It looks like blue toothpaste and smells like kerosene, but does a super job on brass, copper, aluminium (!) and Bakelite. Just used some on the really transihed roller inductor in an old ATU that I was fixing up, and it worked okay afterwards. (Power was only 4W, however--and oh the horror, not BA! Had to see if the HW-9 still worked).

Another one is "NEVR-DULL Cotton Wadding Polish." Tin can full of cotton, with some petroleum product and who knows what else. It's faster than Flitz on copper and brass. However, since it *always* turns black, I suspect it has a fair amount of lampblack in it. 'Til I now for sure, I won't use it on things like roller inductors. Doesn't do as well with Bakelite. We used this stuff to polish all the 1-5/8", 3", 4" and 6" copper-tubing coax at the TV station after installing the new rig and over a year later, most of it is still shiny bright. (Didn't protect against fingermarks, though, so some spots within easy reach need to be repolished).

Both of them require less elbow grease than Brasso. Downside, both of them can leave a thin waxy film depending on how aggressively one undertakes the polishing-after-application phase, NEVR-DULL more so than Flitz.

Another option is "Simichrome" polish, but it is much more expensive and slightly more abrasive than Flitz.

In the case of brass which will be relaquered, you'll have to use a good degreasing agent after any of the above before applying the new finish.

73,
--Bobbi

Date: Wed, 2 Jul 1997 12:52:25 +0000
From: "John Goller" <k9uwa@cris.com>
To: baswaplist@foothill.net
Cc: boatanchors@sco.theporch.com
Subject: WTB: SX-115 Halli
Message-ID: <199707021216.IAA19935@marconi.concentric.net>

Hello I have friend looking for a Hallicrafters SX-115. He wants a nice one and is prepared to pay well for it...Anyone out there have to they are willing to part with???

de John K9UWA
John K9UWA

k9uwa@cris.com

Date: Wed, 2 Jul 1997 12:55:54 +0000
From: "John Goller" <k9uwa@cris.com>
To: baswaplist@foothill.net
Cc: boatanchors@sco.theporch.com
Subject: WTB: DX Engr'g Speech Proc.
Message-ID: <199707021220.IAA03451@cliff.concentric.net>

Looking to buy a DX Engineering SPeech processor for Collins KWM-2....willing to pay well for one that works or less for one that needs repair.

Thanks de John K9UWA
John K9UWA

k9uwa@cris.com

Date: Wed, 2 Jul 1997 08:30:48 -0400
From: "Bob Marsh" <bmarsh@bellatlantic.net>
To: "Boatanchors list" <boatanchors@theporch.com>
Subject: Stuff for Free - Stuff for Sale
Message-ID: <199707021234.IAA13945@core.IConNet.Net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi Everyone,

I'm in the process of cleaning up my "Junk Pile" and have several items that may be of interest to the group. These are offered for free to the first person who can come and get 'em in Northern NJ. All are incomplete and would probably serve as a source of parts, but two may be restorable:

1. CRV-46297-A Reciever - In two sections. No tubes/knobs, and missing some internal components as well
2. FFR-3 Comms Reciever with with FFRD-6 module (4-8 Mcs) - probably restorable.
3. Lambda C-428M-065 Power Supply - most tubes missing, but probably will work.
4. Hammarlund SP-400 SX. Poor condition, but probably good for parts. No knobs or tubes.
5. Motorola 2Meter (AM?) Xtal controlled transciever. some tubes missing and no enclosure.

Unless someone wants them, they're going to have to go to the local recycling heap in the next two weeks. I definitely do not want to pack & ship any of this stuff, so it's pickup only.

I also have an AN/URM 25E Signal Generator from the estate of a local silent key. I haven't checked it out yet, but if anyone's interested, send me a note. It'll go for the best offer plus shipping. (Some of the guys here were actually going to throw this away!)

73 de Bob/KB2SGM

Date: Wed, 2 Jul 1997 08:34:03 -0500 (GMT-0500)
From: Mike Toneri <toneri@ils.net>
To: ebjr@worldnet.att.net
Cc: Old Tube Radios <boatanchors@sco.theporch.com>
Subject: Re: 10 Meters
Message-ID: <199707021334.IAA25521@server1.ils.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 11:31 PM 6/30/97 +0000, Sandy W5TVW wrote:

> Hearing beacons nearly all week. Soem activity on during field day!

> Judging from the CB activity, I'd say we need to check 10 meters more
>often these days while the Sporadic E lasts.
> Heard Beacon in Raleigh, NC today. Anybody listening on 29 Mhz
>or calling CQ there?
>73,
>E. V. Sandy Blaize, W5TVW

I listen and call CQ on 29.000 most days when I am not at work, usually 3 -
4 times a week. So far I have had only 4 AM QSO's this year. I have been
using the Ranger 2 / SX115 setup but I don't have PTT in the Ranger yet. I
guess I will put the 500 on 10 and see if that gets any more contacts.
73...Mike VE3FGU

Mike & Lynda Toneri E-mail: toneri@ils.net
Keswick, Ontario
WEBPAGE: <http://www.geocities.com/heartland/meadows/8218>

Date: Wed, 2 Jul 1997 08:23:42 -0500 (CDT)
From: Bob Roehrig <broehrig@admin.aurora.edu>
To: Boatanchors <boatanchors@sco.theporch.com>
Subject: schematic needed
Message-ID: <Pine.ULT.3.96.970702082143.18370A-100000@admin.aurora.edu>
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Once again I hope some of you can come thru on another BA type drawing
I need. This is for a Wilcox-Gay "Recordio" model 6B30. Trying to
restore for my counterpart that works in the A/V dept here. Will
certainly re-imburse costs.

Thanks

E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL
630-844-4898 Fax 630-844-5530

Date: Wed, 2 Jul 1997 09:20:06 -0500 (CDT)
From: "Steven K. Wenger" <swenger@csj.net>

To: Boatanchors <boatanchors@theporch.com>
Subject: FS: Gates Broadcast Transmitter
Message-ID: <Pine.LNX.3.93.970702090453.19908A-100000@lisa.csj.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Greetings,

I have a Gates 500T transmitter. It runs a pair of 833A's modulating a single 833A for 500 watts output. I also have an RCA transmitter that I want to play with and I do not have room for both. The Gates works great on 160M and has for over 10 years. It is large (6 ft. high and 3 ft. wide), but will fit through a standard door with some minor disassembly - that's how I got it into my house. Lots of spare parts such as tubes, extra power transformer, extra 500 watt modulation transformer, etc. I picked up the spare parts over the years but never needed them. This is obviously pickup only, and I live in central Illinois. I am asking \$700 for all.

73,
Steve KA9QLF
217-243-3920

Date: 02 Jul 1997 09:42:58 -0500
From: "A. B. Bonds" <ab@vuse.vanderbilt.edu>
To: boatanchors@sco.theporch.com
Subject: Re: polishing knobs
Message-ID: <1997Jul02.094259-0500@spike.vuse.vanderbilt.edu>
MIME-Version: 1.0

In <Pine.SCO.3.91.970701215754.14656A-100000@sd.cts.com>, John Kolb wrote:
>On Tue, 1 Jul 1997, Mac Shawe wrote:

>
>> Brasso may be OK on plastic knobs but do not use it on any knobs having
>> brass on them. Clock repair has been another hobby of mine. We were
>> always warned never to use it on clock cases because it etches &
>> corrodes brass, Mac
>
>Can this be true - that Brasso, sold mainly for cleaning brass
>is dangerous to it? My daughter's trumpet, (as well as some of
>my radios, Jack) badly wants to know if anyone has more info on
>this.
>

I seriously doubt this story. Brasso has some ammonia in it to cut

the corrosion (for that matter, so do most brass cleaning compounds). I know of no chemical principles that would lead to embrittlement or severe etching, other than what happens when you polish (which invariably requires removal of small amounts of material). So far as etching is concerned, one would think that would be evident after a time. I have some items I have been polishing with Brasso for at least 15 years and they show no evidence of etching or degradation, in fact they are pretty shiny. I would comment that Simichrome leaves a shinier finish than Brasso, and if it is wiped off (instead of washed) also leave some kind of protective coat that seems to be effective.

Note that if you use Brasso on the trumpet you will cut the lacquer and it will have to be polished regularly from then on. This is a pain, because you have to hold a trumpet, and the various bodily greases conspire to etch much worse than the Brasso. You may want to get the trumpet refinished at a music shop.

No authority but experience.

A. B. Bonds

Date: Wed, 2 Jul 1997 10:54:51 -0400 (EDT)
From: VernSchroe@aol.com
To: boatanchors@theporch.com
Subject: Ten Tec
Message-ID: <970702105411_-1226397376@emout13.mail.aol.com>

Sorry this is not boatanchors but can anyone tell me where to go to find out what a Ten Tec rig would be worth. 546B OmniD and 252 PS.

Thanks,

Vern

Date: Wed, 02 Jul 1997 12:04:09 -0400
From: Mac Shawe <macshawe@erols.com>
To: Boatanchors <boatanchors@sco.theporch.com>
Subject: [Fwd: Re: polishing knobs]
Message-ID: <33BA7BF9.633E@erols.com>
MIME-Version: 1.0
Content-Type: multipart/mixed; boundary="-----3A2722221304"

This is a multi-part message in MIME format.

-----3A2722221304

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Clocks sit on a shelf & tick away for years. So I don't know how long it takes for the damage to show up. I am thrice warned & therefor shy. Use it at your own risk.....Mac

-----3A2722221304

Content-Type: message/rfc822

Content-Transfer-Encoding: 7bit

Content-Disposition: inline

Message-ID: <33BA772C.3C80@erols.com>

Date: Wed, 02 Jul 1997 11:43:40 -0400

From: Mac Shawe <macshawe@erols.com>

Reply-To: macshawe@erols.com

X-Mailer: Mozilla 3.0 (Win95; U)

MIME-Version: 1.0

To: John Kolb <jlkolb@cts.com>

Subject: Re: polishing knobs

References: <Pine.SCO.3.91.970701215754.14656A-100000@sd.cts.com>

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

John Kolb wrote:

>

> On Tue, 1 Jul 1997, Mac Shawe wrote:

>

> > Brasso may be OK on plastic knobs but do not use it on any knobs having

> > brass on them. Clock repair has been another hobby of mine. We were

> > always warned never to use it on clock cases because it etches &

> > corrodes brass, Mac

>

> Can this be true - that Brasso, sold mainly for cleaning brass

> is dangerous to it? My daughter's trumpet, (as well as some of

> my radios, Jack) badly wants to know if anyone has more info on

> this.

>

> John, I have not used it myself because of the warnings received. I just checked with a professional watch/clock man and he said it is true because a residue is left on the brass which over a period of years etches the brass and turns portions green. He said he has removed the residue when people said they have used it by immersing the clock plates in a cleaning solution. I wonder if the simple green diluted & wiped over the piece would neutralize the residue. Good luck. Mac

-----3A2722221304--

Date: Wed, 2 Jul 1997 12:37:22 -0600 (MDT)
From: dfrancis@iex.net (Dexter Francis)
To: boatanchors@theporch.com
Cc: al_parker@kacc.com
Subject: Re: Cooling Tubes
Message-ID: <v01520d00afdf4156982@[207.0.57.74]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

It is important not to overlook the effects of radiation cooling. This can be illustrated by the fact that a pan of water, sitting on the open ground, in air above 32 degrees F, will still develop a layer of ice on the surface, due to it's being exposed to the -40 degree temperature of clear nighttime sky.

The surface condition of an object also has a significant influence on it's temperature. For example, a polished aluminum sphere in orbit will have a surface temperature of about 450 degrees F. while one that is painted painted white will only be at about 80 degrees F.

In any event, the formula for calculating the radiation heat loss from the surface of an object has factors in it for the temperatures of both the radiator and the reciever. The greater the difference in temperature, the greater the transfer of heat. In vacuum tubes, there are multiple transfers involved and big differences in temperature. First, from the filament to the surrounding structure, then to the tube envelope and from there to the air (or water) surrounding the tube. For temperature differences of 600 degrees F. it is possible to obtain transfer rates near 8 BTU/hr - sq. ft. Small perhaps, but not insignificant. (I have ignored the effects of geometry here.) The emissivity of glass is between 0.85 and 0.95, which means that it re-radiates 85% to 95% of the energy it adsorbs, at a temperature of 100 degrees C. So, the envelope will transfer heat by radiation. Cooling it by immersing it in water/oil/whatever will help increase the radiation transfer from the plate/filament structure.

[Don't ask me to do calculations on this. I only know the basic principles. Anyone wanting to wade into the details might pick up a copy of "Cooling Techniques for Elecronic Equipment", by Steinberg.]

-df

* CWest Tube Sales - P.O.B. 22443 SLC, UT 84122 *

* http://www.usa.net/~dfrancis/CWest_Tube_Sales.html *
* e-mail to: tubes@usa.net *

End of BOATANCHORS Digest 1536
